

## Coarse Wavelength Division Multiplexer – CWDM CWDM bandsplitter 10+8 skip 0, hi-iso

### Features

- CWDM bandsplitter to split and combine 18 CWDM channels in two ports
  - Blue Band: 10 channels 1271 – 1451 nm
  - Red Band: 8 channels 1471 – 1611 nm
- High Isolation between red and blue band
- Micro-hybrid design in a sealed metal housing (COLOR-Cubes)
- Epoxy-free optical path, ITU G.694.2 and Telecording GR1221 compliant
- Extremely small component dimensions: 19 x 15.5 x 9 mm<sup>3</sup>, other dimensions on request
- Also available as integrated Patch Cord CWDM for flexible system configurations to enable multiplexing without using any board space
- Single mode and multi mode fibers possible, fiber packaging: loose tube or 250 µm coating
- Packaging on line card or in CWDM sub-system for rack mounting on request

### Applications

- Combines / separates 2 bands of the CWDM channel grid
- Metro Core, Metro Access, Metro Enterprise, Cable TV, 3G Telephony (UMTS), Datacomm, WAN, RFTS, Sensor Applications
- Analog and digital transmission systems

### Specifications

Parameters	Coarse Wavelength Division Multiplexer – 10+8 skip 0 (all values refer to single mode)	
<b>Channels</b>	separation / combination of 2 bands	
<b>Center Wavelength [nm]</b>	Port 1: Red Band	1471 / 1491 / 1511 / 1531 / 1551 / 1571 1591 / 1611
	Port 2: Blue Band	1271 / 1291 / 1311 / 1331 / 1351 / 1371 / 1391 / 1411 / 1431 / 1451
<b>Optical Bandwidth</b>	1271 - 1451 nm	> 13 nm
<b>(Channel Width @ 0.5dB)</b>	1471 - 1531 nm	> 14 nm
	1551 - 1611 nm	> 15 nm
<b>Insertion Loss *</b>	< 1.5 dB	
<b>Isolation **</b>	> 30 dB	
	Isolation Spectral Range	1260-1620 nm
<b>Return Loss *</b>	> 45 dB (50 dB typ.)	
<b>Directivity</b>	> 50 dB	
<b>Polarization Dependent Loss</b>	< 0.2 dB	
<b>Max. optical power</b>	> 250 mW	
<b>Operating Temperature</b>	0°C to 70°C	
<b>Storage Temperature</b>	-40°C to 85°C (when removed from plastic package)	
<b>Package Dimensions</b>	19 x 15.5 x 9 mm <sup>3</sup>	

\* With passband, valid over full temperature range and at all states of polarization but without connector losses.

\*\* Valid over full temperature range and at all wavelengths across the channel.

Additional components according to your specifications on request! Please contact Cube Optics for further details.

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### Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please write the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact HUBER+SUHNER Cube Optics AG at +49-6131-69851-0 or via email at sales.cubo@hubersuhner.com.

Ordering example: C-B8-2-A-A-0-S-11-3-B-15

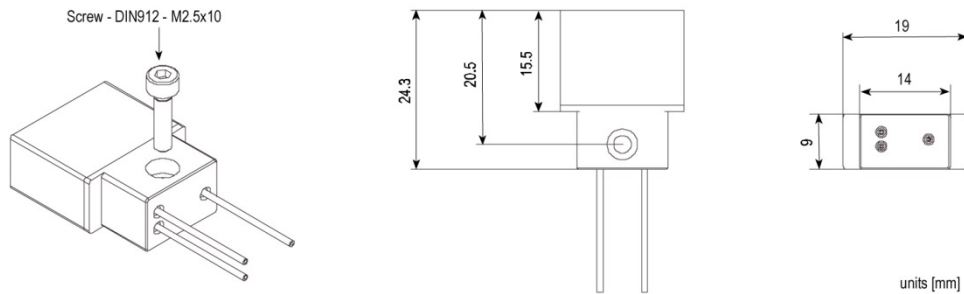
C - B8 -  -  -  -  -  - 1 1 -  -  -

no. of channels	code	mux or demux	code	optional features	code	Fiber length	code	Connector in/out*	code
2 bands	2	mux	M	None	0	0.5 m	A	none	0
		demux	D			1.0 m	B	SC/PC	1
		no destination*	A					FC/PC	2
* uniform losses, works as mux or demux								SC/APC**	3
				housing	code			FC/APC**	4
				Standard BSM	S	<b>fiber type an packaging</b>	<b>code</b>	LC/PC	5
<b>Center wavelengths [nm]</b>				<b>code</b>		Corning SMF-28™ (9,125,250 μm) 900 μm loose tube	1	MU/PC	6
1271-1451 & 1471-1611				A		Corning SMF-28™ (9,125,250 μm) 250 μm coating	2	E2000	7
						Multi mode fiber GI (50,125,250 μm) 900 μm loose tube	3	E2000/HRL**	8
						Multi mode fiber GI (50,125,250 μm) 250 μm coating	4	ST/PC	9

connectors only available in combination with loose tube fiber protection  
\* device regarded as demultiplexer  
\*\* 8° angular polishing

Further configuration on request! Please ask for separate datasheets with grey code.

### Standard BSM housing



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